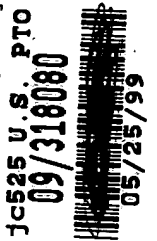


PATENT  
DOCKET NO. 63088A.1  
P00645US2



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: THIELE, et al.  
TITLE: NOVEL ACETALDEHYDE AND MALONDIALDEHYDE PROTEIN  
ADDUCTS AS MARKERS FOR ALCOHOL LIVER DISEASE  
DIVISIONAL APPLICATION OF SERIAL NO. 08/817,018

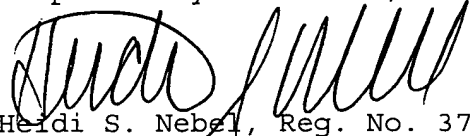
INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner for Patents  
Washington, D.C. 20231

Dear Sir:

Attached is Form PTO-1449 listing the relevant art known to the applicant herein. The Examiner is requested to consider the references and make them of record. This application is a Divisional of Serial No. 08/817,018 filed April 1997; thus copies of the listed references are believed to be a part of that file history and are not enclosed herewith.

Respectfully submitted,

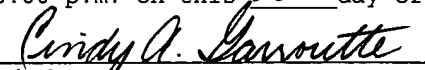
  
Heidi S. Nebel, Reg. No. 37,719  
ZARLEY, MCKEE, THOMTE, VOORHEES  
& SEASE  
Attorneys of Record

801 Grand Avenue - Suite 3200  
Des Moines, Iowa 50309-2721  
515-288-3667 - cg -

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CERTIFICATE OF MAILING BY EXPRESS MAIL

I hereby certify that this document and the documents referred to as enclosed therein are being deposited with the U.S. Postal Service in an envelope as "Express Mail Post Office to Addressee" addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231, prior to 5:00 p.m. on this 25<sup>th</sup> day of May 1999.

  
Cindy A. Garrouette  
Express Mail Label #EL327117981US

Section 2. Form PTO - 1449 (Modified)

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE  
(Patent and Trademark Office)  
INFORMATION DISCLOSURE

STATEMENT BY APPLICANT  
(Use several sheets if necessary)  
(37 CFR 1.98(b))

ATTY. DOCKET NO.

#UNMC#63088A

P00645US2

SERIAL NO.

APPLICANTS

THIELE, Geoffrey M.

FILING DATE

GROUP

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

DOCUMENT NUMBER	PUBLI- CATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION YES NO

OTHER DOCUMENTS (Including Author, Title, Date\*\*, Relevant Pages, Place of Publication\*\*\*)

	Tani et al. "Enhancing Effect of Malondialdehyde Modification on the Mouse IgE Response to Protein Antigens", <u>Agric. Biol. Chem.</u> , 1990, Vol. 54:9 pp. 2323-2330
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	Kikugawa et al. "Determination of Malondialdehyde in Oxidized Lipids by the Hantzsch Fluorometric Method", <u>Analytic Biochemistry</u> , 1988, Vol. 174, pp. 512-521
	Beppu et al., "Interaction of Malondialdehyde-Modified Bovine Serum Albumin and Mouse Peritoneal Macrophages", <u>Chem. Pharm. Bull.</u> , 1988, Vol. 36, No. 11, pp. 4519-4526
	Ohya, Takeshi, "Formation of a New 1,1,1 Adduct in the Reaction of Malondialdehyde, n-Hexylamine and Alkanal under Neutral Conditions", <u>Biol. Pharm. Bull.</u> , 1993, Vol. 16(2) 137-141
	Bosron, et al., "Genetic Polymorphism of Enzymes of Alcohol Metabolism and Susceptibility to Alcoholic Liver Disease", <u>Molec. Aspects Med.</u> , 1988, Vol. 10, pp. 147-158
	Groopman, John D., et al., "Molecular Biomarkers for Human Chemical Carcinogen Exposures", <u>Chem. Res. Toxicol.</u> , 1993, Vol. 6, pp. 764-770
	Marco d'Ischia, et al., "Reaction of Malondialdehyde with Amine Neurotransmitters. Formation and Oxidation Chemistry of Fluorescent 1,4-Dihydropyridine Adducts", <u>Tetrahedron</u> , Vol. 51, No. 34, pp. 9501-9508 (1995)
	TUMA et al (Hepatology, 23:872-880) 1996
	XU et al (Chemical Research in Toxicology, 10:978-986) 1997
	KEARLEY et al. (Chem. Res. Toxicol., 12(1)100-105) 1999

EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.